



GOVERNMENT OF BERMUDA

Ministry of Public Works
Department of Public Lands and Buildings

ASBESTOS ROOF ABATEMENT SPECIFICATION

Between the Owner: Department of Public Lands & Buildings
2 Aeolia Drive Devonshire DV05
Hamilton
Bermuda
441-292-2500

And the Contractor: TBC

For the Project: Dining Hall
Warwick Camp
1 South Road
Warwick
WK 01

Building #: 0248

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APPENDICES

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DIVISION 01. GENERAL REQUIREMENTS

01500 - Temporary Facilities and Controls

This work shall consist of the application of temporary measures throughout the life of the project.

01510 - Temporary Utilities

All connections and extensions required to provide temporary utilities shall be made by the Contractor at the Contractor's expense.

01511 - Temporary Electricity

Connect to existing power service without disrupting local service requirements. Power feeder service characteristics shall be compatible with the service from which it is taken. Size, type and loading shall be per requirements as established by the National Electric Code (NEC). The contractor shall provide main service disconnect and over-current protection at a convenient location in accordance with the NEC. The Contractor shall provide power outlets for construction operations, with branch wiring and distribution boxes located as necessary and shall provide flexible power cords as required. Provide and install distribution equipment, wiring and outlets to provide single phase branch circuits for power.

01515 - Temporary Lighting

Not Applicable

01518 - Temporary Water

Connect to an existing water source for construction operations.

01520 - Construction Facilities

At completion of work, all temporary facilities shall be removed and area restored to new condition.

01523 - Sanitary Facilities

Contractor shall maintain in a neat and sanitary condition such accommodations for the use of his employees as provided by the Owner.

01530 - Temporary Construction

The contractor shall provide and maintain for duration of work all required temporary stairs, ladders, ramps, runways and hoists for use of all trades.

01540 - Construction Aides

The contractor to provide all construction aids needed during construction which shall include but not limited to; elevators, hoists, cranes, etc.

01542 - Construction Scaffolding and Platforms

The Owner shall provide and maintain for duration of work all required temporary standing scaffolding. 'Independent tied' scaffolds will normally be provided for painting, pointing or other maintenance work.

01560 - Temporary Barriers and Enclosures

The contractor shall provide barriers to prevent unauthorized entry into construction areas and to protect existing facilities and adjacent properties from damage from construction operations and demolition.

01600 - Product Requirements (Scope of Work)

All materials shall be in strict accordance with the manufacturer's written specifications or Material's Institute Standards. Where the manufacturer's recommended details are used, the manufacturer shall be responsible for the performance of their product. All Items not specifically mentioned that are required to make the work complete and operational shall be included.

Prior to submitting a bid, you must visit the site and satisfy yourself as to the nature and complexity and quantity of the works to be finally performed and the relevant equipment and labor skills, productivity and hours required to complete these works.

Installation and Storage - All materials, supplies and equipment shall be as per the manufacturer's recommendations and per applicable codes and requirements. Material stored on site shall be protected from damage by moisture, wind, sun, abuse or any other harmful affects.

01630 - Product Substitution Procedures

Not Applicable.

01640 - Owner Furnished Products

Not Applicable.

01700 - Execution Requirements

The execution of all work shall be in strict accordance with these specifications and manufacturer's written specifications or Material's Institute Standards. Where the manufacturer's recommended details are used, the manufacturer shall be responsible for the performance of their product. All work not specifically mentioned that is required to make the work complete and operational shall be included.

Codes - Construction shall comply with the Bermuda Building Code. It is the responsibility of the Contractor to insure compliance with said codes and modify the specifications as needed to comply with such codes.

Insurance - Builders Risk Insurance shall be maintained by the contractor during the course of construction until final acceptance by the owner. All bonding and insurance requirements shall be coordinated with the Owner prior to beginning construction. All contractors shall provide and be solely responsible for necessary barricades and safety precautions, and strictly adhere to all governing codes on safety, including the OSHA Act. All works must be carried out in strict accordance with the Bermuda Occupational Safety and Health Act, 1982 and the Occupational Safety and Health Regulations of 2009.

01740 - Cleaning

Construction site is to be in a clean and orderly condition throughout the construction process. At the conclusion of construction, the project shall be properly cleaned. Clean equipment and fixtures to a sanitary condition. Clean exterior such as debris to landscaped areas, driveways and walks, etc. Remove all waste and surplus materials.

01760 - Protecting Installed Construction

Contractor is to protect all installed construction. If products or materials come with a protective coating, the contractor shall maintain the protective coating until construction is complete.

Contractor shall replace any items that become defective or damaged. All materials and labor shall be provided by the successful contractor and shall therefore be included in his price.

The successful contractor will be responsible for all protection to all adjacent surfaces, clean up and supply of all materials and equipment to undertake the work and maintain the site in a tidy state.

01904 - Hazardous Materials Removal and Disposal

Remove and dispose of any hazardous material. Contractor must be a properly licensed and qualified hazardous material contractor. (See Division 13)

DIVISION 02. SITE WORK

02000 - General

The works at the Warwick Camp Dining Hall involves the removal and disposal of the existing asbestos roof coverings. These works are to be carried out in conjunction with the renewal of the roof coverings which is to be carried out by others. The asbestos abatement contractor is to therefore allow for the phased removal of the asbestos roof coverings to ensure the waterproofing of the building for the duration of the removal and recovering of the roof.

02200 – Demolition

Carefully remove the following:

- (i) Dining hall asbestos roof coverings in accordance with Division 13.

DIVISION 13. SPECIAL CONSTRUCTION

13000 - General

Contractor shall provide labour and materials pertaining to the specialty systems as required and as specified herein, while complying with all applicable building codes.

13001 – Asbestos Abatement – Scope of Work.

The existing Warwick Camp Dining Hall roof covered in corrugated asbestos sheets.

13002 – Asbestos Abatement Procedures – Class II Work Activity

The asbestos abatement contractors will ensure that the following work practices are followed:

- (i) A competent person (Asbestos Supervisor) shall supervise all Class II work
- (ii) The work site must be properly demarcated with the appropriate tape and signs.
- (iii) Tiles, roofing materials shall be removed intact unless the contractor demonstrates that intact removal is not possible.
- (iv) Mechanical chipping of tiles and cutting asbestos roofing is prohibited unless performed in a negative pressure enclosure. The cutting point of the cutting instrument must be covered with a shroud which is connected to a HEPA vacuum and is approved by the Department of Health.
- (v) Personal washing facilities must be provided and a water supply must be provided at the site to allow for this.

- (vi) The wrapped asbestos material must be transported to the storage facility at the Government Works and Engineering Quarry at Bailey's Bay, Hamilton Parish.
- (vii) Arrangements for disposal should be made with the Waste Management Office, Works and Engineering at 297-7946.
- (viii) The vehicle used to transport asbestos waste should be prepared for acceptance of the asbestos material by being lined (bottom and side) with two layers of 6-mil polyethylene. Cover the material with extra polyethylene or tarpaulin if the vehicle is an open type truck.
- (ix) All asbestos roofing must be wrapped in two separate and individual layers (double wrapped) with 6-mil polyethylene and duct tape in accordance with the Department of Health's asbestos abatement requirements.

APPENDIX 1
(PHOTOGRAPHS)



Dining Hall, Warwick Camp
0248



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